

sub-027
What is claimed is:

1. A method of racing control in system management including the steps of determining, regarding newly requested operations under the Common Management Information Protocol (CMIP) defined by an Open System Interconnection (OSI) model, whether or not a managed object instance of operations now being executed and a managed object instance specified by the newly requested operations are the same and, when the instances are different, allowing execution of the newly requested operations, while when the instances are the same, referring to a racing control table formed based on a combination of operation classifications to determine whether it is possible to execute the newly requested operations.

2. A method of racing control in system management including the steps of determining, regarding either one of the newly requested operations of operations under the Common Management Information Protocol (CMIP) defined by the Open System Interconnection (OSI) model and operations inherent to the system, whether or not an external expression establishing correspondence between managed object instances of CMIP operations and resources to be controlled of operations inherent to the system is the same as the external expression of the operations now being executed, when they are different, allowing the execution of the newly requested operations, while when they are the same, establishing correspondence of the classification of CMIP operations with a classification of control of operations inherent to the system and referring to a common racing control table formed based on combinations of the latter classifications of control to determine whether it is possible to execute the newly requested operations.

3. A method of racing control in system management including the steps of determining, regarding either one of the newly requested operations of operations under the

Common Management Information Protocol (CMIP) defined by
the Open System Interconnection (OSI) model and
operations inherent to the system, whether or not an
external expression establishing correspondence between
5 managed object instances of CMIP operations and resources
to be controlled of operations inherent to the system is
the same as the external expression of the operations now
being executed, when they are different, allowing the
execution of the newly requested operations, while when
10 they are the same, establishing correspondence of the
classification of CMIP operations with the classification
of control of operations inherent to the system and
referring to a common racing control table formed based
on combinations of the former classifications of
15 operations to determine whether it is possible to execute
the newly requested operations.

4. A system of racing control in system management
by a Common Management Information Protocol (CMIP)
operations defined by the Open System Interconnection
20 (OSI) model, provided with:

an operation registration table for
registering operations now being executed;
a racing control table for storing
information of whether or not newly requested operations
25 may be executed in the form (matrix) of combinations of
classifications of newly requested and now being executed
CMIP operations; and

a racing control unit including a first
means for extracting operations now being executed from
30 the operation registration table upon newly requested
operations, a second means for determining whether or not
the managed object instance of the operations now being
executed extracted by this first means and the managed
object instance of the newly requested operations are the
35 same, and a third means for, when it is determined by
this second means that they are the same, determining
whether or not newly requested operations can be executed

by referring to the racing control table.

5. A system of racing control in system management by a Common Management Information Protocol (CMIP) operations defined by the Open System Interconnection (OSI) model and operations inherent to the system, provided with:

an operation registration table for registering operations now being executed;

10 a common racing control table for establishing correspondence between classifications of operations of CMIP and classifications of control of operations inherent to the system and storing information on whether or not newly requested operations may be executed; and

15 a racing control unit including a fourth means for extracting operations now being executed from the operation registration table upon newly requested operations, a fifth means for determining whether or not the external expression corresponding to the managed object instance of the operations now being executed extracted by this fourth means and the external expression of the newly requested operations are the same, and a sixth means for, when it is determined that they are the same by this fifth means, determining 20 whether the newly requested operations may be executed by referring to the common racing control table.

25 *SuW* 6. A racing control system as set forth in claim 5, wherein the common racing control table is structured to establish correspondence for classifications of 30 control of operations inherent to the system with classifications of operations of the CMIP and store information of whether newly requested operations may be executed in the form of combinations of classifications of operations now being executed and classifications of 35 newly requested operations.

7. A racing control system as set forth in claim 5, wherein the common racing control table is structured

GuV *b7c* to establish correspondence for classifications of operations of the CMIP with classifications of control of operations inherent to the system and store information of whether or not newly requested operations may be 5 executed in the form of combinations of classifications of control of operations now being executed and classifications of control of newly requested operations.

8. A racing control system as set forth in claim 5, wherein the racing control unit is structured to 10 determine, regarding CMIP operations and operations inherent to the system, whether or not newly requested operations may be executed, based on identity of expressions of resources to be controlled, identity or resemblance of categories of resources to be controlled, 15 and the classifications of control or groups of classifications of control of operations now being executed and newly requested operations.